

Title (en)

Controlling the particle size and particle size distribution in a process for continuous synthesis of molecular sieves

Title (de)

Kontrolle der Teilchengröße und der Teilchengrößenverteilung in einem Verfahren zur kontinuierlichen Synthese von Molekularsieben

Title (fr)

Contrôle de la taille de particules et de la distribution de la taille de particules dans un procédé de synthèse en continu de tamis moléculaires

Publication

EP 1016627 A1 20000705 (EN)

Application

EP 99125730 A 19991223

Priority

US 22210998 A 19981229

Abstract (en)

Molecular sieves represented by the empirical formula on an anhydrous basis: $R_{2-x-y-z}O$: ($Si_xAl_yP_z$) $O_{2-x-y-z}$, (where R is at least one templating agent, "x" "y" and "z" are the mole fractions of R, Si, Al and P respectively) are continuously synthesized while simultaneously controlling both the particle size and/or particle size distribution by continuously adding reactive sources of the desired components along with a structure directing agent into a continuous crystallization reactor and using either interstage backmixing or an adjustment to the number of stages in order to control particle size. One especially preferred way to control particle size distribution is to split the product stream into at least two streams and flowing each stream to a wet miller operated at different severity and then reblending to obtain at least a bimodal distribution.

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